



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Past Days	Total	Supplier Name
P0042203	MCM001-VU	1	1	12% 10 Net 30	5544T38	Rod Ø20mm X 23-3/4				12	1/11/2019	12		S144325	Stock	1/11/2019	\$ 7.70 / ft	0	\$92.44	McMaster-Carr Supply Co.
		2			59915K274	Rod End Bearing D4777-1				15		15		S143965	Inactive	1/10/2019	\$ 19.05 / pcs	1	\$285.75	McMaster-Carr Supply Co.
		3			SWA6A-2000	1/8" Female Spade Connector				300		300		S144273	Stock	1/11/2019	\$ 0.07 / Ea	0	\$20.28	McMaster-Carr Supply Co.
		4			6628K23	1144 Carbon Steel Rod, Ultra Strength, 1/4" Dia.				12		12		S144326	Stock	1/11/2019	\$ 1.28 / ft	0	\$15.38	McMaster-Carr Supply Co.
		5			8297T169	Small O-Ring, Dash # 110				10		10		S144270	Stock	1/11/2019	\$ 0.29 / Ea	0	\$2.88	McMaster-Carr Supply Co.
		6			8297T174	Large O-Ring, Dash # 115				10		10		S144272	Stock	1/11/2019	\$ 0.38 / Ea	0	\$3.75	McMaster-Carr Supply Co.
		7			8893K178	Ø3/16 O1 Tool Steel Rod				6		6		S144327	Stock	1/11/2019	\$ 1.30 / ft	0	\$7.81	McMaster-Carr Supply Co.
		8			8908K62	Shaft				100		100		S144277	Stock	1/11/2019	\$ 0.14 / ft	0	\$14.25	McMaster-Carr Supply Co.
		9			90577A165	Coupling Nut				10		10		S144281	Stock	1/11/2019	\$ 3.00 / Ea	0	\$30.00	McMaster-Carr Supply Co.
		10			91595A446	Dowel Pin				25		25		S144283	Stock	1/11/2019	\$ 0.36 / Ea	0	\$8.94	McMaster-Carr Supply Co.
		11			91611A213	Slotted Spring Pin, Ø4.4mm X 30mm				100		100		S144284	Stock	1/11/2019	\$ 0.08 / Ea	0	\$7.97	McMaster-Carr Supply Co.
		12			91611A216	Slotted Spring Pin, Ø4.4mm X 36mm				100		100		S144288	Stock	1/11/2019	\$ 0.09 / Ea	0	\$8.69	McMaster-Carr Supply Co.

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
		13			92620A875	Cap Screw, 3/4-16 X 3 UNF 2A				3		3		S144289	Stock	1/11/2019	\$ 9.24 / Ea	0		\$27.72	McMaster-Carr Supply Co.
		14			97484A055	Rivet, Ø3/32 X 1/4				250		250		S144290	Stock	1/11/2019	\$ 0.02 / Ea	0		\$5.00	McMaster-Carr Supply Co.
		15			98025A031	Oversized Washer, 3/8 I.D.				50		50		S144291	Stock	1/11/2019	\$ 0.21 / Ea	0		\$10.70	McMaster-Carr Supply Co.
		16			MDELIRINB1.250X3.000W	M Delrin Bar, White receive ft				4		4		S144321	Stock	1/11/2019	\$ 33.89 / ft	0		\$135.56	McMaster-Carr Supply Co.
		17			MDELIRINB1.500X3.000W	M Delrin Bar, White						4		S144322	Stock	1/11/2019	\$ 40.24 / ft	0		\$160.96	McMaster-Carr Supply Co.
		18			MT-NYLON 6-80.250X2.000-W	Nylon 6 White Bar 0.250"H x 2"Wide				2		2		S144320	Stock	1/11/2019	\$ 39.85 / sf	0		\$79.70	McMaster-Carr Supply Co.
		19			2458K14	Ball Joint Rod End				6		6		S144188	Inactive	1/11/2019	\$ 5.67 / Ea	0		\$34.02	McMaster-Carr Supply Co.
		20			3799K13	Rod End, M8 x 1.25 X 50mm						6		S144292	Stock	1/11/2019	\$ 9.62 / Ea	0		\$57.72	McMaster-Carr Supply Co.
		21			5274T691	Vial, Ø1.58 X .73				10		10		S144293	Stock	1/11/2019	\$ 0.70 / Ea	0		\$7.04	McMaster-Carr Supply Co.
		22			60765K343	Knob, M8 x 1.25						10		S144295	Stock	1/11/2019	\$ 2.97 / Ea	0		\$29.70	McMaster-Carr Supply Co.
		23			7813A47	Hex L Key, 5mm				6		6		S144298	Stock	1/11/2019	\$ 1.58 / Ea	0		\$9.48	McMaster-Carr Supply Co.
		24			84835A24	Spring Plunger, .25 Nose Dia						6		S144300	Stock	1/11/2019	\$ 2.82 / Ea	0		\$16.92	McMaster-Carr Supply Co.
		25			91250A332	Screw, M6 X 30mm SHCS				50		50		S144303	Stock	1/11/2019	\$ 0.16 / Ea	0		\$8.24	McMaster-Carr Supply Co.

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
		26			91595A485	Dowel Pin, 6mm X 60mm				10		10	S144304	Stock	1/11/2019	\$ 0.86 / Ea		0		\$8.60	McMaster-Carr Supply Co.
		27			91595A567	Dowel Pin, 8mm X 30mm						10	S144306	Stock	1/11/2019	\$ 0.76 / Ea		0		\$7.59	McMaster-Carr Supply Co.
		28			91595A741	Pin, Dowel, 12mm X 36mm						10	S144328	Stock	1/11/2019	\$ 1.95 / Ea		0		\$19.46	McMaster-Carr Supply Co.
		29			91611A159	Slotted Spring Pin Ø3mm X 20mm				200		200	S144311	Stock	1/11/2019	\$ 0.06 / Ea		0		\$11.32	McMaster-Carr Supply Co.
		30			92605A166	Socket Head Set Screw				10		10	S144312	Stock	1/11/2019	\$ 1.03 / Ea		0		\$10.28	McMaster-Carr Supply Co.
		31			92981A215	Bolt, Shoulder, 8mm X 60mm				100		100	S144268	Stock	1/11/2019	\$ 3.26 / Ea		0		\$326.00	McMaster-Carr Supply Co.
		32			94285A515	Set Screw, M6 X 1 X 8				50		50	S144313	Stock	1/11/2019	\$ 0.23 / Ea		0		\$11.38	McMaster-Carr Supply Co.
		33			98541A139	Ring, Retaining				10		10	S144319	Stock	1/11/2019	\$ 0.79 / Ea		0		\$7.85	McMaster-Carr Supply Co.
Total:												1,507								\$1,483.38	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042203



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO042203

PO Date: 1/8/19

Due Date: 1/11/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

E-MAILED
JAN 08 2019

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		5544T38	5544T382 6FT	Rod Ø20mm X 23-3/4	Firmed	-	1/11/19	12 ft	0 ft	12 ft	\$7.703333/ft	\$92.44
2	188287	59915K274		Rod End Bearing D4777-1	Firmed	-	1/11/19	15 pcs	0 pcs	15 pcs	\$19.05/pcs	\$285.75
3		SWA6A-2000	69525K14 100 / per pk	1/8" Female Spade Connector	Firmed	-	1/11/19	300 Ea	0 Ea	300 Ea	\$0.0676/Ea	\$20.28
4		6628K23	6 ft	1144 Carbon Steel Rod, Ultra Strength, 1/4" Dia.	Firmed	-	1/11/19	12 ft	0 ft	12 ft	\$1.2816666/ft	\$15.38
5		8297T169	10/pk	Small O- Ring, Dash # 110	Firmed	-	1/11/19	10 Ea	0 Ea	10 Ea	\$0.288/Ea	\$2.88
6		8297T174	10/pk	Large O- Ring, Dash # 115	Firmed	-	1/11/19	10 Ea	0 Ea	10 Ea	\$0.375/Ea	\$3.75
7		8893K178	6 ft	Ø3/16 O1 Tool Steel Rod	Firmed	-	1/11/19	6 ft	0 ft	6 ft	\$1.301666/ft	\$7.81
8		8908K62	100/pk	Shaft	Firmed	-	1/11/19	100 ft	0 ft	100 ft	\$0.1425/ft	\$14.25

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PURCHASE ORDER

P0042203



Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
9		90977A165 ✓	10/pk	Coupling Nut	Firmed	-	1/11/19	10 Ea	0 Ea	10 Ea	\$3.00/Ea	\$30.00
10		91595A446 ✓	25/pk	Dowel Pin	Firmed	-	1/11/19	25 Ea	0 Ea	25 Ea	\$0.3576/Ea	\$8.94
11		91611A213 ✓	100/pk	Slotted Spring Pin, Ø4.4mm X 30mm	Firmed	-	1/11/19	100 Ea	0 Ea	100 Ea	\$0.0797/Ea	\$7.97
12		91611A216 ✓	100/pk	Slotted Spring Pin, Ø4.4mm X 36mm	Firmed	-	1/11/19	100 Ea	0 Ea	100 Ea	\$0.0869/Ea	\$8.69
13		92620A875 ✓	1/pk	Cap Screw, 3/4-16 X 3 UNF 2A	Firmed	-	1/11/19	3 Ea	0 Ea	3 Ea	\$9.24/Ea	\$27.72
14		97484A055 ✓	250/pk	Rivet, Ø3/32 X 1/4	Firmed	-	1/11/19	250 Ea	0 Ea	250 Ea	\$0.02/Ea	\$5.00
15		98025A031 ✓	50/pk	Oversized Washer, 3/8 I.D.	Firmed	-	1/11/19	50 Ea	0 Ea	50 Ea	\$0.214/Ea	\$10.70
16		MDELINB1.250X3.000W ✓	8739K61 4 FT	M Delrin Bar, White receive ft	Firmed	-	1/11/19	4 ft	0 ft	4 ft	\$33.89/ft	\$135.56
17		MDELINB1.500X3.000W ✓	8739K67 4 FT	M Delrin Bar, White	Firmed	-	1/11/19	4 ft	0 ft	4 ft	\$40.24/ft	\$160.96
18		MT-NYLON 6-B0.250X2.000-W ✓	8539K95 1/pc = 2 sf	Nylon 6 White Bar 0.250"H x 2" Wide	Firmed	-	1/11/19	2 sf	0 sf	2 sf	\$39.85/sf	\$79.70
19		2458K14 ✓	1/pk	Ball Joint Rod End	Firmed	-	1/11/19	6 Ea	0 Ea	6 Ea	\$5.67/Ea	\$34.02
20		3799K13 ✓	1/pk	Rod End, M8 x 1.25 X 50mm	Firmed	-	1/11/19	6 Ea	0 Ea	6 Ea	\$9.62/Ea	\$57.72
21		5274T691 ✓	10/pk	Vial, Ø1.58 X .73	Firmed	-	1/11/19	10 Ea	0 Ea	10 Ea	\$0.704/Ea	\$7.04
22		60765K343 ✓	10/pk	Knob, M8 x 1.25	Firmed	-	1/11/19	10 Ea	0 Ea	10 Ea	\$2.97/Ea	\$29.70

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PURCHASE ORDER PO042203



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
23		7813A47 ✓	1/pk	Hex L Key, 5mm	Firmed	-	1/11/19	6 Ea 6X	0 Ea JAN 11 2019	6 Ea	\$1.58/Ea	\$9.48
24		84835A24 ✓	1/pk	Spring Plunger, .25 Nose Dia.	Firmed	-	1/11/19	6 Ea 6X	0 Ea JAN 11 2019	6 Ea	\$2.82/Ea	\$16.92
25		91290A332 ✓	50/pk	Screw, M6 X 30mm SHCS	Firmed	-	1/11/19	50 Ea 50X	0 Ea JAN 11 2019	50 Ea	\$0.1648/Ea	\$8.24
26		91595A485 ✓	10/pk	Dowel Pin, 6mm X 60mm	Firmed	-	1/11/19	10 Ea 10X	0 Ea JAN 11 2019	10 Ea	\$0.86/Ea	\$8.60
27		91595A567 ✓	10/pk	Dowel Pin, 8mm X 30mm	Firmed	-	1/11/19	10 Ea 10X	0 Ea JAN 11 2019	10 Ea	\$0.759/Ea	\$7.59
28		91595A741 ✓	5/pk	Pin, Dowel, 12mm X 36mm	Firmed	-	1/11/19	10 Ea 10X	0 Ea JAN 11 2019	10 Ea	\$1.946/Ea	\$19.46
29		91611A159 ✓	200/pk	Slotted Spring Pin Ø3mm X 20mm	Firmed	-	1/11/19	200 Ea 200X	0 Ea JAN 11 2019	200 Ea	\$0.0566/Ea	\$11.32
30		92605A166 ✓	5/pk	Socket Head Set Screw	Firmed	-	1/11/19	10 Ea 10X	0 Ea JAN 11 2019	10 Ea	\$1.028/Ea	\$10.28
31		92981A215 ✓	5/pk	Bolt, Shoulder, 8mm X 60mm	Firmed	-	1/11/19	100 Ea 100X	0 Ea JAN 11 2019	100 Ea	\$3.26/Ea	\$326.00
32		94285A515 ✓	50/pk	Set Screw, M6 X 1 X 8	Firmed	-	1/11/19	50 Ea 50X	0 Ea JAN 11 2019	50 Ea	\$0.2276/Ea	\$11.38
33		98541A139 ✓	10/pk	Ring, Retaining	Firmed	-	1/11/19	10 Ea 10X	0 Ea JAN 11 2019	10 Ea	\$0.785/Ea	\$7.85

Grand Total: \$1,483.38

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PURCHASE ORDER

PO042203



Order Notes

Procurement Quality Clauses
A005 RIGHT OF ENTRY
A016 PERSONNEL QUALIFICATION
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 DOCUMENT SPECIAL REQUIREMENTS
A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/8/19 11:53 AM dart.lavoie.chantal

Chantal Lavoie

From:

Sent:

To:

Subject:

Michelle GagnonDonovan
Wednesday, January 02, 2019 11:06 AM
Chantal Lavoie; David Duval; Diane Baker; Jennifer Renwick; Jonathan Duval; Kim Johnston; Linda Lacelle; Lisa McMachen; Shannon Hadley; Sian Willems; Simon Langlois; Sylvie Larocque; Wesley Reid
New Parts week 51

Hello All,

Please see below for the list of parts added to Plex week 51.

Thank you,

Michelle

New Parts manually added to Plex this week:

RBE105-14101W13P/-PO
RBE117-15004W6-1/-3/-5/-7/-9/-11/-13/-15/-17/-19/-21
DALL-50-C-B-A-1P
4.5NR-30
RBEA62316-1/-3/-5/-7/-9/-11/-13/-15/-17/-19/-31/-47/-49/-51/-53/-55
RBEVR-L11-0010-004-B-1/-3
RBEVR-L11-0010-002-B-1/-3/-5/-7
RBEVR-L11-0010-002-D-1/-3
RBEL133M6705-101-01/-03
RBE1X25-166-856-1/-3/-5/-7
RBE1X25-166-857-1/-3
RBE1X36-166-807-1/-3/-5
RBE1X46-175-575-1/-3/-5
RBE1X56-136-858

Hardware/Material parts manually added to Plex this week:

~~2458K14~~
~~3799K13~~
~~5274T691~~
~~5544T38~~
~~60765K343~~
~~7813A47~~
~~8297T174~~
~~8297T169~~
~~8483A24~~
91290A332
91595A485
91595A567
91595A741
91611A159

~~92605A166~~

~~92981A215~~

~~94285A515~~

~~98541A139~~

Finished Goods Parts manually added to Plex this week

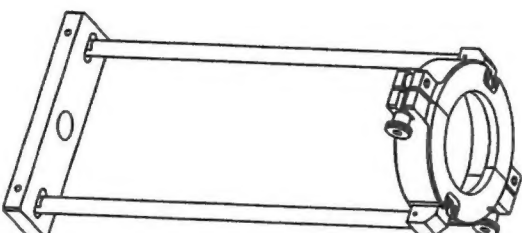
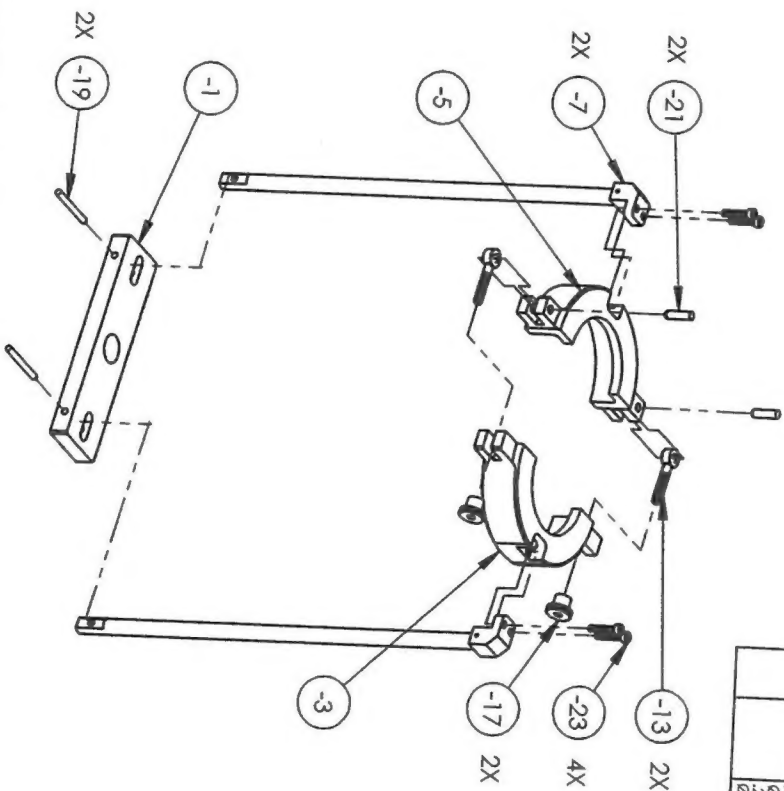
D350-607-541MG

DALL-50-C-B-A-1

RBEL133M6705-101

DSI 9428-011

REV	ECR	REVISIONS		DATE	INITIAL	APPROVED
		DESCRIPTION				
2	16-02020	ADDED NOTE 1 SHEET 1, -1, -3, -5, -7 ADDED FINISH QMS#-4.2.2 B.O. REV D -1, -7 CHD MATERIAL WAS 1018 IS #36/1018/1020 HR -1, CHD DIM WAS XZ Ø .2362/1.2558 THRU ALL IS ZX Ø .2362/1.2575 (S.F. -.19), WAS 8.650 IS 8.65, WAS 2.350 S 2.36, WAS 7.50 IS 7.5, -3, -5 CHD MATERIAL WAS 1400/142, ADDED HEAT TREAT RC 28-54 AC 127.0 DIM WAS ZX .770 IS ZX .77, ADDED DIM ZX .91, ADDED ENGRAVE NOTE -5 CHD DIM WAS 2X 127.0 DIM WAS ZX .770 IS ZX .77, ADDED DIM ZX .91, Ø .128/1 ENGRAVE NOTE -7 CHD DIM WAS 2X 127.0 DIM WAS ZX .770 IS ZX .77, ADDED DIM ZX .91, -240, DEFLECTED F=-.15), WAS Ø .625 +.005/-0.000 W 510 IS Ø .625 ENGRAVE -7 CHD DIM WAS 1.297/1.25 IS Ø .2391/.2379 THRU ALL IS Ø .2362/.2357 THRU ALL (P.F. -.19), ADDED DIM 54.5 WAS 1.200 S 1.21, WAS 1.500 IS 1.51 (S.F. -.11), WAS 2.40 IS 2.40 IS ZX	11/14/2016	RJC	SM	



ASSY QTY	ASSY QTY	B/O	Part #	Description	Material	B/O INFORMATION OR SPECIFICATIONS	P.G.
			-1	1 BASE PLATE	A36/1018/1020 HR		1
			-3	1 RING	4140/4142		2
			-5	1 RING 2	4140/4142		3
X			-7	2 WEDMENT			4
1			-9	2 ROD TOP	A36/1018/1020 HR		5
1			-11	2 ROD	1018/1020 CR		6
		B/O	-13	2 ROD END	STEEL	M8 x 1.25 x 50mm (MCMaster-CARR #3799K13)	7
		B/O	-15	2 SPRING PIN	STEEL	Ø1/8 x 7/8 (MCMaster-CARR #90692A699)	1
		B/O	-17	2 KNOB	STEEL	M8 x 1.25 (MCMaster-CARR #6076SK343)	5
		B/O	-19	2 DOWEL PIN	STEEL	6mm x 60mm (MCMaster-CARR #91595A485)	1
		B/O	-21	2 DOWEL PIN	STEEL	8mm x 30 mm (MCMaster-CARR #91595A567)	1
		B/O	-23	4 SCREW	STEEL	M6 X 1 X .30mm SHCS (MCMaster-CARR #91290A332)	1
ASSY -7							

1. REF. EUROCOPTER T/N 1X53 166 817
2. USED IN KIT RBEA62316

2ART
AEROSPACE
PULLER

PULLER

RBE1X53-166-817

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
± .005 FRACTIONS ± 1/8

ANGLES $\pm 6^\circ$
SURFACES = 125/

SEAN ALL SHARP EDGES
x 45° OR .016R

PERSONAL LIMITS APPLY
INTERPLATING
INTERDIM AND TOL PER

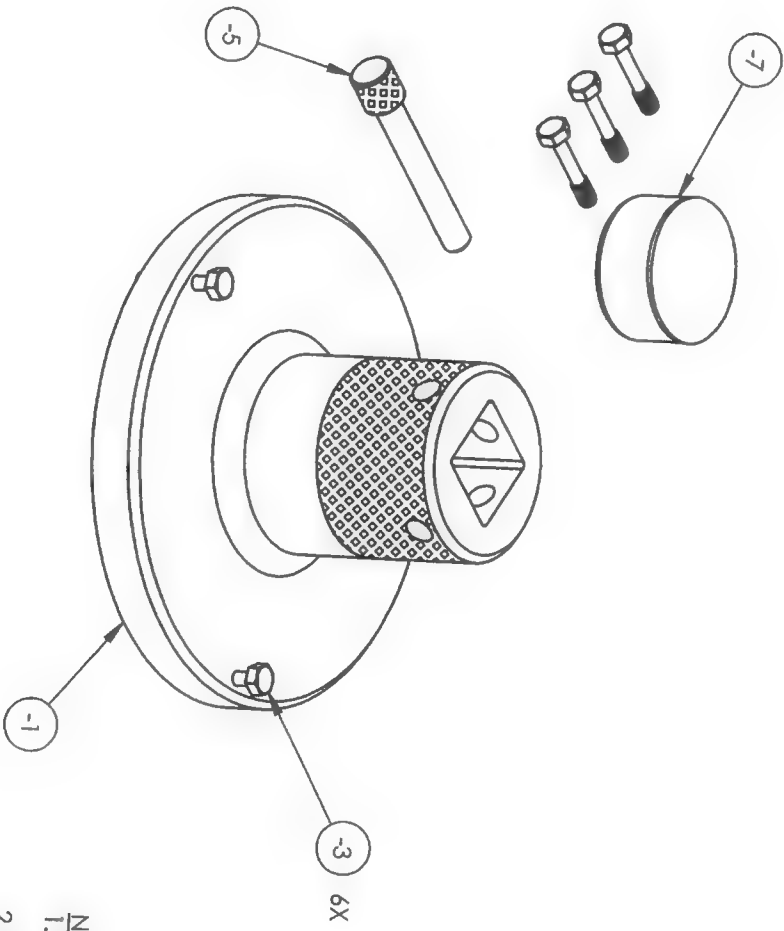
USED ON MODEL
Y14.6M-2009

EC135

2	SHEET 1 OF 7
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REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A		CHD-1 ENGRAVE NOTE FROM ENGRAVE P/N. CORRECTED DEPTH DIM. OF SLOT FROM .260 TO .210 PER G.E.	4/8/2013	RJC	GE
2	15-0215	UPDATED TO NEW DRAFTING STANDARDS. CHD TITLE WAS SPANNER IS SOCKET WRENCH.	8/31/2015	DPD	JAG



ASSY QTY	ASSY B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
-	-	-1	1	SPANNER	4140 Q&T/4142 Q&T		2
-	-	-3	6	SCREW	STEEL	M5 x .8 x .25 (MCMMASTER-CARR #91280A234) MODIFIED	3
-	-	-5	1	PIN	4140/4142		4
-	-	-7	1	WAL	PLASTIC	Ø1.58 X .73 (MCMMASTER-CARR #52741691)	1

- NOTES:
1. USED IN KIT RBEA62315, MAST NUT TORQUE TOOL KIT.
 2. USED IN KIT RBEA62316, EC135 MAST CHANGE KIT.

DART
AEROSPACE

SOCKET WRENCH

DWG NO. RBE1X36-166-807

TITLE	DWG NO.	REV
SOCKET WRENCH	RBE1X36-166-807	2

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS 1/8
ANGLES 2.5°
FINISH
SPEC

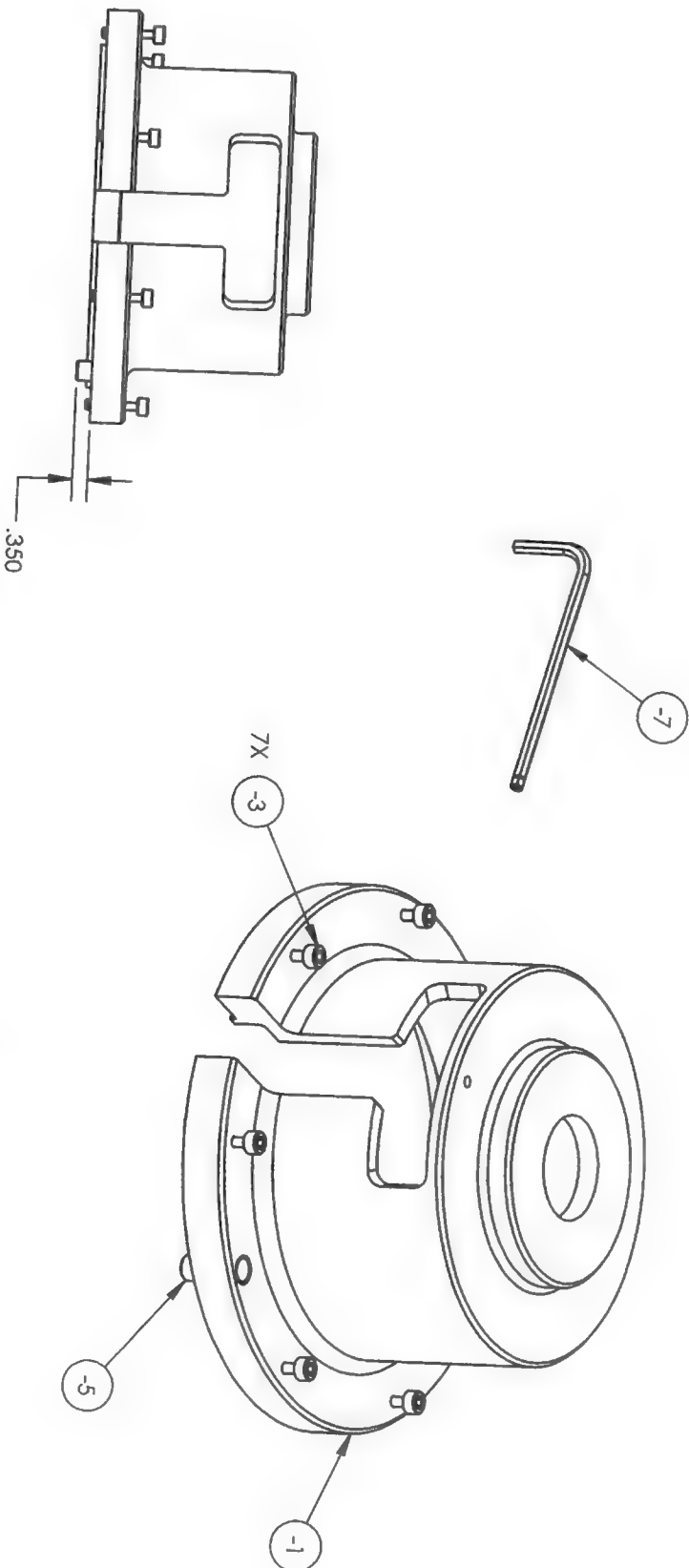
1. BREAK ALL SHARP EDGES .015 x 45°
2. DIMENSIONAL LIMITS APPLY AFTER PLATING

SCALE 1:2 DATE 3/15/2012 USED ON MODEL EC135

SHEET 1 OF 4

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REVISIONS				
REV	EGR	DESCRIPTION	DATE	INITIAL
2	15-0216	UPDATED TO NEW DRAFTING STANDARDS. CHD TITLE WAS SUPPORT IS FIXTURE ASSEMBLY. -3 & -5 ADDED FINISH LINC PLATE	8/31/2015	APPROVED JAG



- NOTES:
1. USED IN KIT RBEA62315, MAST NUT TORQUE TOOL KIT.
 2. USED IN KIT RBEA62316, EC135 MAST CHANGE KIT.



FIXTURE ASSEMBLY

RBE1X46-175-575

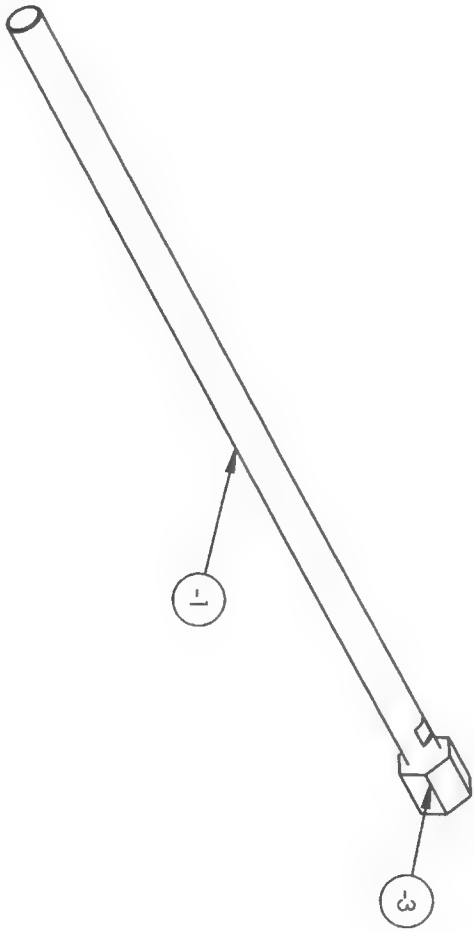
TITLE	DWG NO.	DATE	SCALE	SHEET
FIXTURE ASSEMBLY	RBE1X46-175-575	3/15/2012	1:3	1 OF 4

ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	P.G.
		-1	1	SUPPORT	6061	Ø9-5/8 X 5-1/8	2
		-3	7	SCREW	STEEL	M6x1 X 30 (MCMMASTER-CARR #95263A576) MODIFIED	3
		-5	1	PIN	STEEL	Ø1/2 X 1-1/8 (MCMMASTER-CARR #98381 A713) MODIFIED	4
		-7	1	HEX L KEY	STEEL	5mm (MCMMASTER-CARR #7813A47)	1

MATL	UNLESS OTHERWISE SPECIFIED	DRAWN BY:	APPROVED	REV
XXX ± .005	FRACTIONS ARE IN INCHES	GILBERT		2
XX ± .01	FRACTIONS ± 1/8			
X ± .1	ANGLES ± .5°			
1. BREAK ALL SHARP EDGES .016 X 45°				
2. DIMENSIONAL LIMITS APPLY AFTER PLATING				
SCALE	1:3	DATE	3/15/2012	SHEET 1 OF 4

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REV	DESCRIPTION	DATE	INITIAL	APPROVED
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NOTE:
ALSO USED IN KIT RBEA62316.

RED BARN MACHINE	
ROD ASSEMBLY	
DWG NO.	REV
RBEVR-L11-0010-002-D	
DRAWN BY: GILBERT	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/32
XX ± .01 ANGLES ± 5°
1. BREAK ALL SHARP EDGES .015 x 45°
OR .016R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING

SCALE 1:4 DATE 4/11/2012 SHEET 1 OF 3

USED ON MODEL EC135

REACT FINISH SPEC

APPROVED

DATE

SHEET 1 OF 3

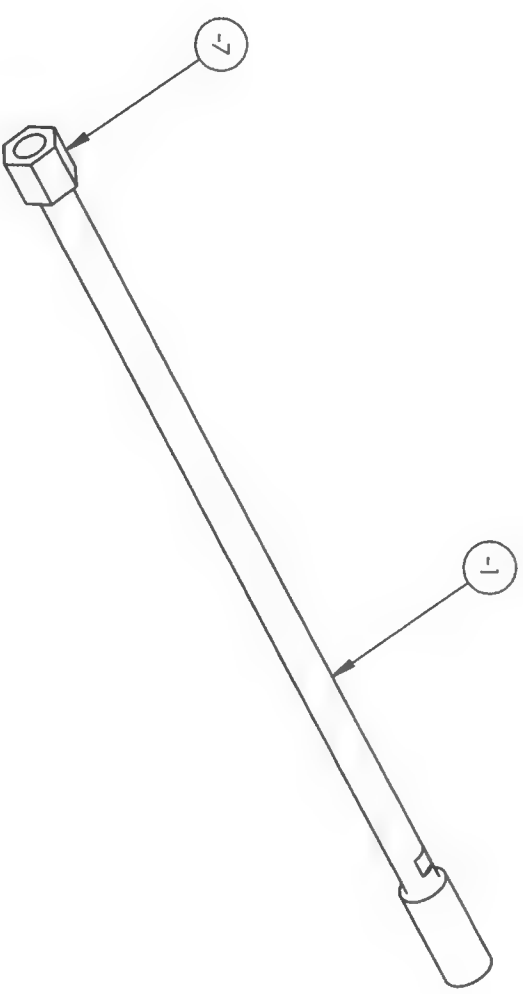
ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	P.G.
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			-1	1	ROD	12L14	Ø20mm X 23-3/4 MCMASTER-CARR #5544138	2
--	--	--	----	---	-----	-------	---------------------------------------	---

			-3	1	COUPLING NUT	1018	HEX 1-1/4 X 1-5/16	3
--	--	--	----	---	--------------	------	--------------------	---

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REV	DESCRIPTION	DATE	INITIAL	APPROVED



ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	P.G.
X	1	-1	1	1	ROD WELDMENT	12L14	Ø20mm X 23-3/4 MCMASTER-CARR #5544738	2
1	1	-3			ROD	12L14		3
1	1	-5			SLEEVE	12L14	Ø1-1/8 X 2-5/8	4
1	1	-7			COUPLING NUT	1018	HEX 1-1/4 X 1-5/16	1

USED IN KIT RBEA62316



RED BARN MACHINE

ROD ASSEMBLY

RBEVR-L11-0010-002-B

DWG NO.

MAT'L

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
XXX ± .006
XX ± .01
X ± .1

1. BREAK ALL SHARP EDGES .016 X 45°
OR .016R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING

SCALE 1:4

DATE 4/11/2012

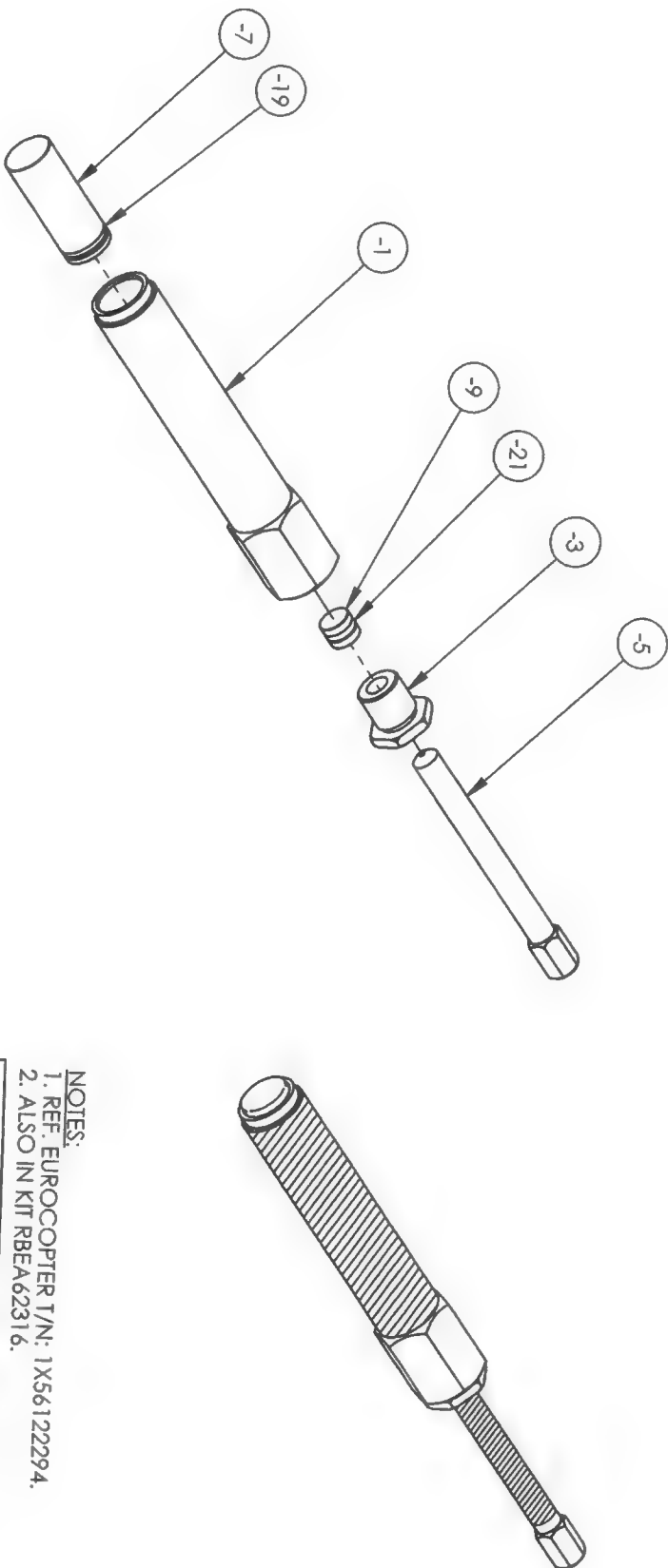
DRAWN BY: GILBERT

APPROVED *D. Mott*

FINISH SPEC

USED ON MODEL EC135

REV	RCH	DESCRIPTIONS	DATE	INITIAL	APPROVED
1	16-01.60	UPDATED TO NEW STANDARDS -1 CHD DIM WAS Ø .531 + .005/- .000 THRU ALL IS Ø .564/.582 THRU ALL DIM. 7.50 -9 CHD MATL WAS Ø .875/.874 WAS Ø .728 ± .80 M2OX1 .5 - .6H "7.0 IS M2OX1 .5 - .6H "86; ADDED CHD DIM WAS M12X1 .5 IS M12X1 .5 - .6G; ADDED DIM Ø .513 -9 CHD MATERIAL WAS 1018 IS 1018/1020 CR; WAS Ø .8652/.8648 IS 2X Ø .872/.871; ADDED DIM M5X0.8 - .6H "38 Ø .517 ± .250 CHD DIM WAS 4140 Q&T IS 303 Q&T Ø .8652/.8648 IS 2X Ø .872/.871; ADDED DIM 1.45/1.40 IS 2X R2005 2X R.OI. Ø .698/.696 -9 CHD MATERIAL WAS 4140 Q&T IS 303 S.S.; REMOVED FINISH; REMOVED DIM R.O4 CHD DIM WAS 2X R2005 2X R.OI. Ø .560/.559 WAS 2.75 IS .45; ADDED DIM Ø .386/.384 1.45/1.40 1.155 2X R.OI. Ø .386/.384 1.313.	10/11/2016	SM	JAG



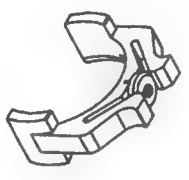
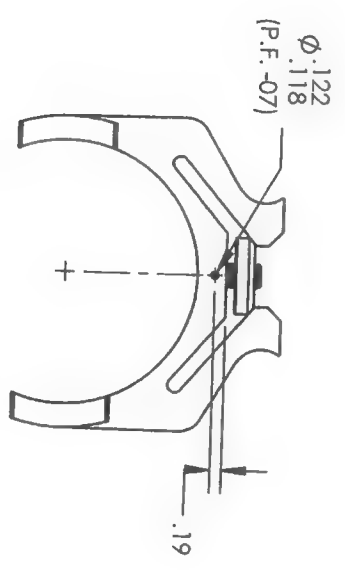
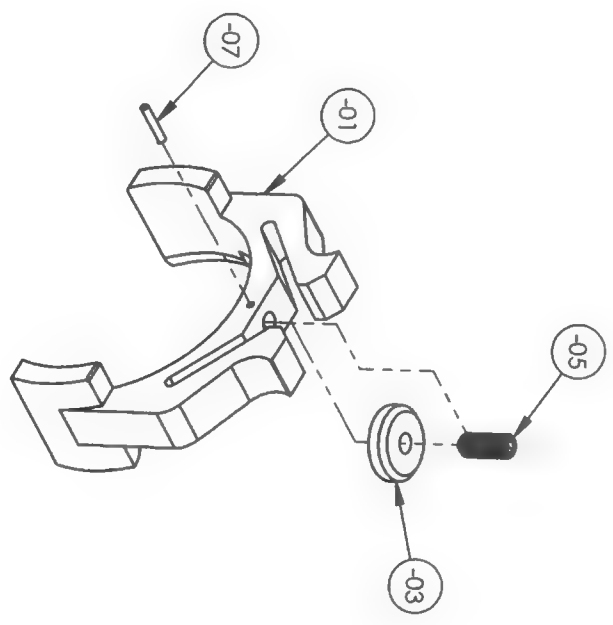
ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	P.G.
			-1	1	OUTSIDE ROD	4140/4142		2
			-3	1	PLUG			2
			-5	1	THREADED ROD	1018/1020 CR		3
			-7	1	LARGE PISTON	1018/1020 CR		4
			-9	1	SMALL PISTON	303 S.S.		5
		B/O	-19	1	LARGE O-RING	303 S.S.		6
		B/O	-21	1	SMALL O-RING	VTION	DASH # 115 (MCMASTER-CARR # 829711/4) DASH # 110 (MCMASTER-CARR # 829711/69)	1

TITLE		PUSH-OUT DEVICE	
DWG NO.		RBE1X56-122-294	
MATERIAL		REV 1	
HEAT TREATING	UNLESS OTHERWISE SPECIFIED		
FINISH	DIMENSIONS ARE IN INCHES		
	.XXX ± .005 FRACTIONS IN INCHES		
	.XX ± .01 ANGLES ± .5°		
	.X ± .1 SURFACES = 125/		
DRAWN BY:	GILBERT	1. BREAK ALL SHARP EDGES	
CHECKED:	CLOUGH	.016 x .45" OR .016R	
OPRS APPR:	ANDERSON	2. DIMENSIONAL LIMITS APPLY	
QA APPR:	LINDSAY	AFTER PLATING	
APPROVED:	GILBERT	3. ASME Y14.3M-2003	
SCALE	1:3	USED ON MODEL EC135	
DATE	44440040		

NOTES:
1. REF. EUROCOPTER T/N: 1X56122294
2. ALSO IN KIT RBEA62316.

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
A		ADDED .593 DIM AND REF. 1.574 DIM.	3/14/2011	JAG
B		ADDED DASHES TO DWG NUMBER.	8/3/2011	JAG
C		REMOVED DASHES IN DWG. NUMBER. ADDED Ø3mm CALLOUT. CHD RADIUS FROM R.391 TO R.397.	5/23/2017	JAG
4	17-0125	ADDED NOTE 2 SHF 1. -01 CHD DIM WAS 2.585 IS 2.581. WAS 1.98 IS 1.19. WAS Ø.118 IS Ø.122. 1.18 THRU ALL (P.F. -07). WAS R.491 (X2) IS 2X R.49. WAS R.406 (X2) IS 2X R.41. SECTION VIEW A-A. ADDED DIM 1.813. ADDED NOTES A & A. DELETED Ø.118 THRU HOLE AND WAS R.1101. 3.15 M10X1.5-6H THRU ALL. -05 DELETED DRAWING SHEET. ADDED VIEW TO SHEET 1 TO DRILL HOLE AT ASSEMBLY.	5/23/2017	RJC



- NOTES:
1. USED IN KIT RBEA62410.
 2. REFERENCE EUROCOPTER T/N L133M6705-101.

TITLE		DRAWING NO.		REV	
SWASH PLATE FIXATION CLAMP		RBEL133M6705-101		4	
MATERIAL		SPEC		FINISH	
DRAWN BY: PERLITT		CHECKED: DD 05/23/2017		QA APPR: AA 05/24/2017	
APPROVED: JL 05/24/2017		SCALE 1:3		DATE 4/6/2010	
SHEET 1 OF 3		REV 4		UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES		TOLERANCES		ANGLES	
.XXX ± .005		FRACTIONS ± 1/16		SURFACES ± 125	
.X ± .01		DECIMALS ± .001		SURFACES ± 125	
.X ± .1		ANGLES ± 5'		SURFACES ± 125	
1. BREAK ALL SHARP EDGES		2. DIMENSIONAL LIMITS APPLY		3. INTERPRET DIM AND TOL. PER ASME Y14.5M-2009	
4. AFTER PLATING DIM AND TOL. PER USED ON MODEL		EC135		JAG	

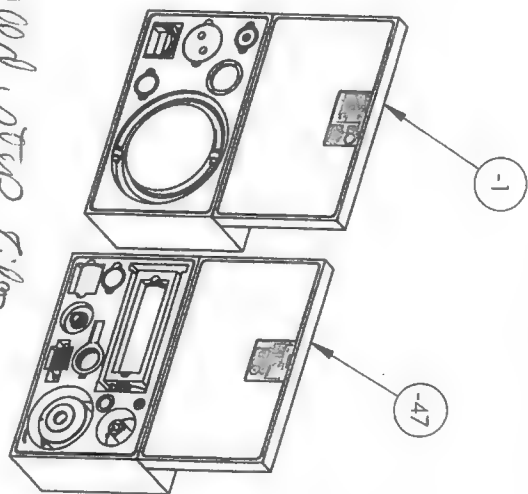
ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	P.G.
			-01	1	CLAMP BODY	WHITE DELRIN/ACETAL		2
			-03	1	KNURLED THUMB NUT	303/304 S.S.		3
			-05	1	SOCKET HEAD SET SCREW	S.S.	M10 X 1.5mm X 25mm (MCMASTER-CARR #92605A166)	1
			-07	1	SLOTTED SPRING PIN	STEEL	Ø3mm X 20mm (MCMASTER-CARR #91611A159)	1

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much.

REVISIONS			
REV	EGR	DESCRIPTION	
A		-11 CORRECTED ITEM 33 P/N & DESCRIPTION FROM RBE133M-6705-101 SPINDLE TO RBE1X56-122-264 PUSH-OUT DEVICE.	DATE 4/29/2013 INITIAL RJC APPROVED RW
2	15-0219	UPDATED TO NEW DRAFTING STANDARDS. CHD DESCRIPTIONS WAS SPANNER IS SOCKET WRENCH, WAS SERVO SCREW DRIVER IS TORQUE MULTIPLIER & COUNTER HOLDER. WAS SUPPORT IS FIXTURE ASSEMBLY. REMOVED TOOL IS TORQUE WRENCH. -18, -47 REPLACED TOOL DASH NUMBERS WITH: DIMS WAS 5.00 IS 5.06, WAS 8.00 IS 8.05, -48 CHD DIMS WAS 0.4, 20 IS 0.4, 43, WAS 0.3, 25 IS 0.3, 27, 4X R, 70, 2X R, 70, -51 CHD DIMS WAS 6.00 IS 6.06, -53 CHD DESCRIPTIONS WAS SUPPORT IS FIXTURE ASSEMBLY. WAS SPANNER IS SOCKET WRENCH, WAS SERVO SCREW DRIVER IS TORQUE MULTIPLIER & COUNTER HOLDER. -55 CHD DIM WAS 3.50 IS 3.29, CHD TOLERANCE ON NON-CRITICAL DIMENSIONS.	DATE 9/1/2015 INITIAL DPD APPROVED JAG

ASSY QTY	ASSY B/O	UNIT #	Description	Material	B/O INFORMATION OR SPECIFICATIONS	P.G.
X	-1	1	CASE 1			
1	B/O	-3	BOTTOM FOAM, TOP SHELF	Y-20 BLACK	2.40 X 17.97 X 29.01 (I.R. SPECIALTY)	2
1	B/O	-5	BOTTOM FOAM, LOWER SHELF	Y-20, BLACK	6.08 X 17.78 X 28.82 (I.R. SPECIALTY)	3
1	B/O	-7	TOP SHELF STIFFENER	BLACK COROPLAST	24 X 17.78 X 28.82 (I.R. SPECIALTY)	4
1	B/O	-9	TOP FOAM	C200, BLACK FLAT	1.80 X 18.04 X 29.13 (I.R. SPECIALTY)	5
1	B/O	-11	PLACARD	PLASTIC		6
1	B/O	-13	CASE		PELICAN #APP-1650-E	7
1	B/O	-15	HAND PUMP		POWER TEAM #555001	2/B
1	B/O	-17	5 TON JACK		POWER TEAM #555001	2
1	B/O	-19	12 TON JACK		POWER TEAM #555001	2
1	B/O	-31	HOSE ASSY		1741D, X 811 POWER TEAM #9754	2
1			THREADED PULLER	RUBBER BRAIDED	RBEVR-L11-0010-002-1	2
1			PRESS TOOL		RBEVR-L11-0010-002-1	2
1			PRESS TOOL		RBEVR-L11-0010-002-1	2
1			ROD ASSEMBLY		RBEVR-L11-0010-002-1	2
1			ROD ASSEMBLY		RBEVR-L11-0010-002-1	2
1			PUSH-OUT DEVICE		RBE1X56-122-294	2
1			MOUNTING TOOL		RBE1X56-122-294	2
1			THRUST PIECE		RBE133M-6705-101	2
1			PRESS TOOL		RBE1X56-122-294	2
1			GROOVE NUT		RBE1X56-122-294	2
1			SPACER		RBEVR-L11-0010-002-1	2
1			PRESS TOOL		RBEVR-L11-0010-002-1	2
X	-47	1	CASE 2			
1	B/O	-49	BOTTOM FOAM	Y-20, BLACK	8.81 X 17.97 X 29.01 (I.R. SPECIALTY)	8
1	B/O	-51	TOP FOAM	C200, BLACK FLAT	1.80 X 18.04 X 29.13 (I.R. SPECIALTY)	9
1	B/O	-53	PLACARD	PLASTIC		10
2	B/O	-55	REINFORCEMENT	BLACK COROPLAST	4mm X 3-1/8 X 3-1/8 (I.R. SPECIALTY)	11
1			THRUST PIECE		RBE1X56-122-294	12
1			RELEASE MECHANISM		RBE1X56-122-294	8
1			ADAPTER		RBE1X56-122-294	8
1			PULLER		RBE1X56-122-294	8
1			FIXTURE ASSEMBLY		RBE1X56-122-294	8
1			SOCKET WRENCH		RBE1X56-122-294	8
1			TORQUE MULTIPLIER & COUNTER HOLDER		RBE1X56-122-294	8



Need step files

DART
AEROSPACE

EC135 MAST CHANGE KIT

RBEA62316

DRAWN BY: GILBERT

APPROVED: *[Signature]*


1. BREAK ALL SHARP EDGES .015 X 45°

SCALE 1:24 DATE 4/1/2012 SHEET 1 OF 12

Chantal Lavoie

From: Daniel Paquette
Sent: Friday, January 04, 2019 8:15 AM
To: Michelle GagnonDonovan; Chantal Lavoie
Subject: Parts to enter into PLEX/Order Ref: RBE105-14101W11

Michelle please enter into PLEX. Thanks.
Chantal please order 2 of this. Thanks.

1/4"	-0.004" to 0"	Cold Worked	Hardened	6628K23	\$1.69	\$4.23	1
Product Detail							
Easy-to-Machine 1144 Carbon Steel Rod, Ultra-Strength 1/4" Diameter				<input type="checkbox"/>	Each		
Length ft				ADD TO ORDER			
✓ 6				In stock			
5/16"	-0.004" to 0"	Cold Worked	Hardened	6628K25	2.31	5.78	1

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042203

Order Placed By
Chantal Lavoie

McMaster-Carr Number
6168959-04

Page 1 of 2

01/08/2019

Line	Product	Ordered	Shipped
2	59915K274 Corrosion-Resistant Ball Joint Rod End, 3/8"-24 Thread, Right Hand	15 Each	15
3	69525K14 Noninsulated Quick-Disconnect Terminals, Single-Crimp Female, 16-14 Gauge, 0.11" Wide x 0.02" Thick Tab, Packs of 100	3 Packs	3
5	8297T169 Hard Viton Fluoroelastomer O-Ring, Chemical-Resistant, 3/32 Fractional Width, Dash Number 110, Packs of 10	1 Pack	1
6	8297T174 Hard Viton Fluoroelastomer O-Ring, Chemical-Resistant, 3/32 Fractional Width, Dash Number 115, Packs of 10	1 Pack	1
8	8908K62 Spring-Back 304 Stainless Steel Wire, Matte Finish, 1-Foot Long, 0.059" Diameter, Packs of 100	1 Pack	1
9	90977A165 Medium-Strength Steel Coupling Nut, Grade 5, 3/8"-16 Thread Size	10 Each	10
10	91595A446 Alloy Steel Dowel Pin, 6mm Diameter, 16mm Long, Packs of 25	1 Pack	1
11	91611A213 Steel Slotted Spring Pin, 4mm Diameter, 30mm Long, Packs of 100	1 Pack	1
12	91611A216 Steel Slotted Spring Pin, 4mm Diameter, 36mm Long, Packs of 100	1 Pack	1
13	92620A875 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 3/4"-16 Thread Size, 3" Long, Fully Threaded, Packs of 1	3 Packs	3
14	97484A055 Large-Diameter Low-Profile Domed Head Rivets, Solid, 3/32" Diameter, 0.25" Long, Packs of 250	1 Pack	1
15	98025A031 Zinc Yellow-Chromate Plated Steel Oversized Washer, Grade 8, for 3/8" Screw Size, 0.406" ID, 0.812" OD, Packs of 50	1 Pack	1
19	2458K14 Lubrication-Free Ball Joint Rod End, 3/8"-24 Thread, Right-Hand	6 Each	6
20	3799K13 Partially Threaded Rod End Bolt, M8 x 1.25mm Shank Thread, 50mm Shank Center Length	6 Each	6
21	5274T691 Polypropylene Plastic Vials with Tight Fitting Lid, 0.5 oz./15 ml Capacity, Packs of 10	1 Pack	1
22	60765K348 Steel Round Knob with M8 x 1.25mm Threaded Through Hole, 25mm Diameter Head	10 Each	10
23	7813A47 High-Visibility Gold Ball-End L-Key, 5 mm Size	6 Each	6
24	84835A24 Press-Fit Ball-Nose Spring Plunger, Stainless Steel Nose with Steel Body, 0.31" Body Diameter, 8 to 16 lb. Nose Force	6 Each	6
25	91290A332 Black-Oxide Alloy Steel Socket Head Screw, M6 x 1 mm Thread, 30 mm Long, Packs of 50	1 Pack	1

Rec'd 307

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042203

Page 2 of 2

Order Placed By
Chantal Lavoie

01/08/2019

McMaster-Carr Number
6168959-04

Line	Product	Ordered	Shipped
26	91595A485 Alloy Steel Dowel Pin, 6mm Diameter, 60mm Long, Packs of 10	1 Pack	1
27	91595A567 Alloy Steel Dowel Pin, 8mm Diameter, 30mm Long, Packs of 10	1 Pack	1
28	91595A741 Alloy Steel Dowel Pin, 12mm Diameter, 36mm Long, Packs of 5	2 Packs	2
29	91611A159 Steel Slotted Spring Pin, 3mm Diameter, 20mm Long, Packs of 200	1 Pack	1
30	92605A166 Stainless Steel Flat-Tip Set Screw, 18-8, M10 x 1.5 mm Thread, 25 mm Long, Packs of 5	2 Packs	2
31	92981A215 Alloy Steel Shoulder Screws, 8 mm Shoulder Diameter, 60 mm Shoulder Length, M6 x 1 mm Thread	100 Each	100
32	94285A515 Knurl-Grip Cup-Point Set Screws, Alloy Steel, M6 x 1 mm Thread, 8 mm Long, Packs of 50	1 Pack	1
33	98541A139 External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090 Spring Steel, Packs of 10	1 Pack	1

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042203

Order Placed By
Chantal Lavoie

McMaster-Carr Number
6168959-01

Packing List

Page 1 of 1

01/08/2019

Line	Product	Ordered	Shipped
18	8539K95 ✓ Nylon Sheet, Off-White, 24" x 24" x 1/4"	1 Each	1 ✓

30 Aurora Industrial Pkwy
Aurora OH 44202-8087
30-995-5500
e.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042203

Order Placed By
Chantal Lavoie

McMaster-Carr Number
6168959-02

Page 1 of 1

01/08/2019

ne	Product	Ordered	Shipped
5	8739K61 White Delrin® Acetal Resin Oversized Bar, 1-1/4" Thick, 3" Wide, 4' Length	4 Feet	4 ✓
7	8739K67 White Delrin® Acetal Resin Oversized Bar, 1-1/2" Thick, 3" Wide, 4' Length	4 Feet	4 ✓

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042203

Page 1 of 1

Order Placed By
Chantal Lavoie

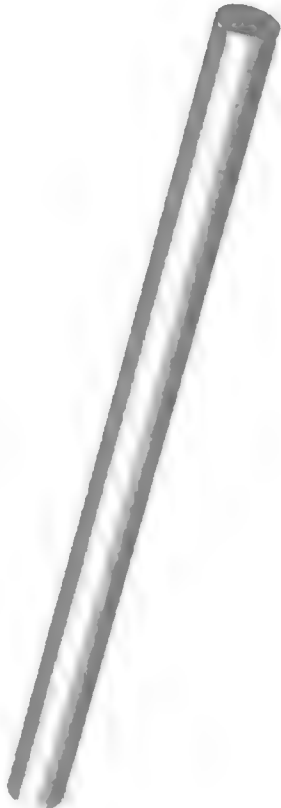
01/08/2019

McMaster-Carr Number
6168959-03

Line	Product	Ordered	Shipped
1	5544T38 Tight-Tolerance 12L14 Carbon Steel Rod, Ultra-Machinable, 20' mm Diameter, 6 Feet Long	2 Each	2
4	6628K23 Easy-to-Machine 1144 Carbon Steel Rod, Ultra-Strength, 1/4" Diameter, 6 Feet Long	2 Each	2
7	8893K178 Tight-Tolerance Multipurpose O1 Tool Steel Rod, 0.1875" Diameter, 6 Feet Long	1 Each	1

Tight-Tolerance 12L14 Carbon Steel Rod
Ultra-Machinable, 20 mm Diameter

5544T382



Material	12L14 Carbon Steel
Cross Section Shape	Round
Construction	Solid
Appearance	Plain
Mechanical Finish	Precision Ground
Diameter	20mm
Diameter Tolerance	-0.012mm to 0mm
Yield Strength	65,000 psi
Temper Rating	Softened (Annealed)
Hardness	Rockwell B80
Hardness Rating	Medium
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Rockwell C65
Temperature Range	Not Rated
Specifications Met	ASTM A108
Straightness Tolerance	1/16" per 3 ft.
Density	0.28 lbs./cu. in.
Surface Resistivity	16.5 microhm-cm @ 68° F
Thermal Conductivity	380 Btu/hr. x in./sq. ft./°F @ 212° F
Coefficient of Thermal Expansion	7.9 x 10 ⁻⁶
Elongation	14.5%
Material Composition	
Iron	97.91-98.70%
Carbon	0.15% Max.
Lead	0.15-0.35%
Manganese	0.85-1.15%

Phosphorus	0.04-0.09%	Physical and mechanical properties are not guaranteed. They are intended only as a basis for comparison and not for design purposes.
Sulfur	0.26-0.35%	
Warning		
Length	1 ft., 3 ft., 6 ft.	

These precision-ground rods have a diameter tolerance of -0.0005" (-0.012 mm) and a straightness tolerance of 1/16" per 3 ft. The lead additive acts as a lubricant, which allows 12L14 carbon steel to withstand very fast machining. It's used to fabricate a wide variety of machine parts.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 5544T38
DATE: 19/01/17

PO / BATCH NO.: P0042203 / S144325

MATERIAL CERT REC'D: Y
QUANTITY RECEIVED: 124
QUANTITY INSPECTED: 124
QUANTITY REJECTED: 0

THICKNESS ORDERED: 20mm
THICKNESS RECEIVED: 20mm
SHEET SIZE ORDERED: —
SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	See McMaster drawing
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	P0042203
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

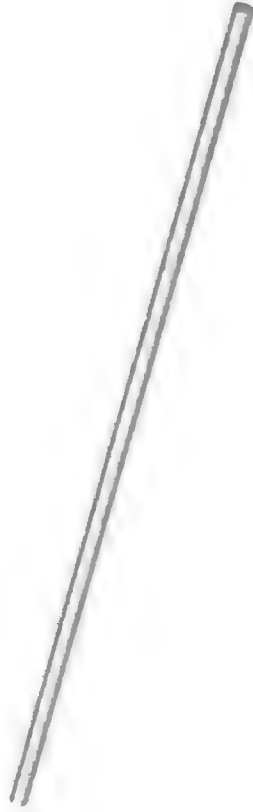
testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 61 9-89</u> DATE: <u>19/01/17</u>		SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Easy-to-Machine 1144 Carbon Steel Rod

Ultra-Strength, 1/4" Diameter



6628K23

Easy-to-Machine 1144 Carbon Steel Rod, Ultra-Strength, 1/4" Diameter | McMaster-Carr

Material	1144 Carbon Steel
Cross Section Shape	Round
Construction	Solid
Appearance	Plain
Diameter	1/4"
Diameter Tolerance	-0.004" to 0"
Tolerance Rating	Undersized
Yield Strength	125,000 psi
Fabrication	Cold Worked
Temper Rating	Hardened
Hardness	Rockwell C30
Hardness Rating	Hard
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Not Rated
Temperature Range	Not Rated
Straightness Tolerance	Not Rated
Density	0.28 lbs./cu. in.
Surface Resistivity	17 microhm-cm @ 68° F
Thermal Conductivity	350 Btu/hr. x in./sq. ft./°F @ 212° F
Coefficient of Thermal Expansion	7.4 x 10 ⁻⁶
Elongation	6.5%
Material Composition	
Iron	97.50-98.01%
Carbon	0.40-0.48%
Manganese	1.35-1.65%
Phosphorus	0.04% Max.

Sulfur	0.24-0.33%
Length	1 ft., 3 ft., 6 ft.
RoHS	Not Compliant

Containing more carbon and manganese than 1117, 1144 carbon steel offers higher yield strength and hardness, even without further heat treatment. Use it to fabricate parts that require stress resistance. Also known as Fatigueproof, these rods have enhanced strength and resistance to breaking from repeated impact compared to High-Strength Easy-to-Machine 1144 Carbon Steel Rods.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 6628K23
 DATE: 19/01/17

PO / BATCH NO.: P0042203 / S144326

MATERIAL CERT REC'D: #
 QUANTITY RECEIVED: 12ft
 QUANTITY INSPECTED: 12ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.25"
 THICKNESS RECEIVED: 0.25"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	See Mc Master drawing
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	P0042203
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION INSPECTED BY: <u>DAS 61</u> DATE: <u>19/01/17</u>	ENGINEERING SIGNOFF (if required) SIGNED OFF BY: _____ DATE: _____
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Tight-Tolerance Multipurpose O1 Tool Steel Rod
0.1875" Diameter

8893K178



Material	O1 Tool Steel
Cross Section Shape	Round
Construction	Solid
Appearance	Plain
Diameter	0.1875"
Diameter Tolerance	-0.0005" to 0.0005"
Tolerance Rating	Tight
Yield Strength	50,000 psi
Temper Rating	Softened (Annealed)
Hardness	Rockwell B90
Hardness Rating	Medium
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Rockwell C65
Mechanical Finish	Precision Ground
Temperature Range	Not Rated
Specifications Met	ASTM A681
Straightness Tolerance	Not Rated
Density	0.28 lbs./cu. in.
Coefficient of Thermal Expansion	7.1×10^{-6}
Elongation	25%
Material Composition	
Iron	94.79-96.95%
Carbon	0.85-1.05%
Chromium	0.40-0.70%
Manganese	1.00-1.40%
Nitrogen	0.40-0.60%

Phosphorus	0-0.030%
Silicon	0-0.50%
Sulfur	0-0.030%
Tungsten	0.40-0.60%
Vanadium	0-0.30%
Length	3 ft., 6 ft.
Additional Specifications	Guidelines for Heat Treating Tool Steel
RoHS	Compliant

These precision-ground rods have a tight diameter tolerance. Commonly used for dies, punches, and gauges, O1 tool steel is an oil-hardening material that resists wear and abrasion.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 8893K178
 DATE: 19/01/17

PO / BATCH NO.: P0042203 / 5144327

MATERIAL CERT REC'D: _____
 QUANTITY RECEIVED: 6ft
 QUANTITY INSPECTED: 6ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.1875"
 THICKNESS RECEIVED: 0.1875"
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	<i>See Mc Master drawing</i>
CORRECT THICKNESS	<input checked="" type="radio"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	<u>P0042203</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>19/01/17</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

White Delrin® Acetal Resin Oversized Bar

1-1/4" Thick, 3" Wide

In stock
\$35.93 per ft.
8739K61

Material	Delrin® Acetal Plastic
Cross Section Shape	Rectangle
Construction	Solid
Texture	Smooth
Color	White
Clarity	Opaque
Thickness	1 1/4"
Thickness Tolerance	0" to +0.025"
Tolerance Rating	Oversized
Width	3"
Width Tolerance	0" to +1/4"
Length	1 ft., 2 ft., 3 ft., 4 ft.
Backing Type	Plain
Hardness	Rockwell M90
Hardness Rating	Hard
For Use Outdoors	No
Temperature Range	-20° to 180° F
Impact Strength	1.00 ft.-lbs./in.
Impact Strength Rating	Good
Tensile Strength	9,000 psi
Tensile Strength Rating	Good
Specifications Met	ASTM D6100, Made of FDA Listed Material, NSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water
Density	0.051 lbs./cu. in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil

Water Absorption	0.30%
Coefficient of Thermal Expansion	8.5×10^{-5} in./in./°F
RoHS	Compliant

These sheets, bars, and strips are made of Delrin® acetal resin, a wear-resistant material with a naturally slippery surface. Also known as acetal homopolymer, it resists moisture and has the ability to hold tight tolerances. It's often used for gears, bushings, and bearings.



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED P	APPROVED #	DRAWING NO. M-DELRIN-B	REV. A SHEET 1 OF 1
DATE 02.04.30		TITLE DELRIN BAR	SCALE NTS
A	02.04.30	NEW ISSUE	
A1	02.06.04	ADD "ACETRON GP ACETAL" AS OPTION	

PURCHASE MATERIAL:

DELRIN II ISOE OR ACETRON GP ACETAL

PART NUMBER:

M-DELRIN-B | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)
THICK | WIDTH | WW.WWW = WIDTH (IN INCHES)

EG. 0.5" x 1.0" BAR = M-DELRIN-B 0.500 x 01.000

RELEASED
2006 #

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MDLRINB1.250 x 3.000W
 DATE: 19/01/14

PO / BATCH NO.: P0042203 / S144321

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 4ft
 QUANTITY INSPECTED: 4ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.250"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	DELRIN
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	P0042203
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>31</u> <u>9-69</u>	SIGNED OFF BY: _____
DATE: <u>19/01/14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

White Delrin® Acetal Resin Oversized Bar 1-1/2" Thick, 3" Wide

In stock
\$42.66 per ft.
8739K67

Material	Delrin® Acetal Plastic
Cross Section Shape	Rectangle
Construction	Solid
Texture	Smooth
Color	White
Clarity	Opaque
Thickness	1 1/2"
Thickness Tolerance	0" to +0.025"
Tolerance Rating	Oversized
Width	3"
Width Tolerance	0" to +1/4"
Length	1 ft., 2 ft., 3 ft., 4 ft.
Backing Type	Plain
Hardness	Rockwell M90
Hardness Rating	Hard
For Use Outdoors	No
Temperature Range	-20° to 180° F
Impact Strength	1.00 ft.-lbs./in.
Impact Strength Rating	Good
Tensile Strength	9,000 psi
Tensile Strength Rating	Good
Specifications Met	ASTM D6100, Made of FDA Listed Material, NSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water
Density	0.051 lbs./cu. in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil

Water Absorption	0.30%
Coefficient of Thermal Expansion	8.5×10^{-5} in./in./°F
RoHS	Compliant

These sheets, bars, and strips are made of Delrin® acetal resin, a wear-resistant material with a naturally slippery surface. Also known as acetal homopolymer, it resists moisture and has the ability to hold tight tolerances. It's often used for gears, bushings, and bearings.



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED CP	APPROVED #	DRAWING NO. M-DELRIN-B	REV. A SHEET 1 OF 1
DATE 02.04.30		TITLE DELRIN BAR	SCALE NTS
A	02.04.30	NEW ISSUE	
AI	02.06.04	ADD "ACETRON GP ACETAL" AS OPTION	

PURCHASE MATERIAL:

DELRIN II ISOE OR ACETRON GP ACETAL

PART NUMBER:

M-DELRIN-B | T.TTT | x | WW.WWW | WHERE TTT = THICKNESS (IN INCHES)
THICK | WIDTH | WW.WWW = WIDTH (IN INCHES)

EG. 0.5" x 1.0" BAR = M-DELRIN-B0.500 x 01.000

RELEASED
02/05/06

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MDELRIN 1.500x3.000 W
 DATE: 19/01/14

PO / BATCH NO.: P0042203/S144322

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 4ft
 QUANTITY INSPECTED: 4ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500"
 THICKNESS RECEIVED: 1.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	DELFIN
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	P0042203
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>19/01/14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Nylon Sheet

Off-White, 24" x 24" x 1/4"

\$79.70 Each
8539K95



Material	Nylon Plastic
Grade	6/6
Cross Section Shape	Rectangle
Construction	Solid
Texture	Smooth
Color	Off-White
Clarity	Opaque
Thickness	1/4"
Thickness Tolerance	0.000" to +0.025"
Tolerance Rating	Oversized
Width	24"
Width Tolerance	0" to +1/2"
Length	24"
Length Tolerance	0" to +1/2"
Backing Type	Plain
Hardness	Rockwell R110
Hardness Rating	Hard
For Use Outdoors	No
Temperature Range	-40° to 185° F
Impact Strength	1.00 ft.-lbs./in.
Impact Strength Rating	Good
Tensile Strength	11,200 psi
Tensile Strength Rating	Excellent
Specifications Met	ASTM D5989, ASTM D6779, Made of FDA Listed Material, NSF/ANSI Standard 61 for Drinking Water, UL 94V2
Density	0.041 lbs./cu. in.

Coefficient of Friction	0.27
Dielectric Strength	300V/mil
Water Absorption	1.35%
Coefficient of Thermal Expansion	4.8×10^{-5} in./in./°F
RoHS	Compliant

With excellent wear and abrasion resistance, these nylon 6/6 sheets, bars, and strips are often used for bearings, gears, and other high-wear parts. They resist gasoline, mineral oil, and refrigerants.

8 7 6 5 4 3 2 1

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.23	VM	WM

SPECIFICATION CONTROL DRAWING



PURCHASE MATERIAL:
SPECIFICATION:
PART NUMBER:

NYLON 6-B[H.H.HH]x[W.WWW]-C

ASTM D5989
MT-NYLON 6-B[H.H.HH]x[W.WWW]-C
WHERE "H.H.HH" = HEIGHT IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES
WHERE "C" = COLOR [W= WHITE] / [B= BLACK]

EG. 1/4" x 2" WHITE BAR = MT-NYLON 6-B0.250x2.000-W
TOLERANCES PER MANUFACTURER SPECIFICATIONS

DART AEROSPACE		Newbury, Oxford, OX5 1GB	
TITLE NYLON 6 BAR			
DRAWN BY: SAC 09/07/2017		REV A	
CHECKED BY: VM 09/07/2017		MT-NYLON 6-B	
MTO. APPR: DP 09/07/2017		1. DIMENSIONS ARE IN INCHES 2. UNLESS OTHERWISE SPECIFIED 3. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED	
QA APPR: PD 09/12/2017		1. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED 2. UNLESS OTHERWISE SPECIFIED 3. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED	
APPROVED BY: VM 09/12/2017		1. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED 2. UNLESS OTHERWISE SPECIFIED 3. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED	
DATE: 9/7/2017		SCALE: NTS WEIGHT: N/A	
COPYRIGHT © 2017 BY DART AEROSPACE LTD			
THIS DOCUMENT IS PROVIDED AS A GUIDE ONLY. THE USER MUST VERIFY THE DIMENSIONS AND TOLERANCES OF THE PARTS BEFORE USE. THE USER MUST VERIFY THE DIMENSIONS AND TOLERANCES OF THE PARTS BEFORE USE.			

EN 17-649

8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-NYLON 6-60.250x2.00-W

PO / BATCH NO.: P0042203 / S144320

DATE: 19/01/14

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.250"

QUANTITY RECEIVED: 25F

THICKNESS RECEIVED: 0.250"

QUANTITY INSPECTED: 25F

SHEET SIZE ORDERED: 2'x2'

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: 2'x2'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	<u>NYLON</u>
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	<u>P0042203</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>61</u>	SIGNED OFF BY: _____		
DATE: <u>19/01/14</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in